

MAKSIMOV, Aleksandr Aleksandrovich; ZAV'YALOV, V.P., red.; AKULOV, Ye.F., red.; KIRBYEV, M.I., red.; NOVIKOV, V.K., red.; SAVEL'YEV, V.I., red.; CHUMAKOV, N.M., red.; BARUNOV, N.I., tekhn.red.

[Saving of electric power in industrial enterprises] *Ekonomiia elektroenergii na promyshlennykh predpriatiakh.* Moskva, Gos.energ.izd-vo, 1961. 119 p. (MIRA 15:2)
(Electric power)

16.8000(1031, 1121, 1329)

27585
S/102/61/000/001/003/005
D274/D303

AUTHOR: Chumakov, M.M. (Kyyiv)

TITLE: On the creation of noise-invariant automatic systems

PERIODICAL: Avtomatyka, no. 1, 1961, 33-45

TEXT: Certain practical problems are considered which arise in the creation of nearly-invariant stabilization systems. The investigation is carried out for the case of a single-loop system operating by the principle of measuring the deviations of the controlled variable. The following problems are dealt with: a) Determination of the form of the transfer functions of compensating elements incorporated in the system for achieving invariance. The invariance condition $M(p) = 0$ will be satisfied if

$$\left. \begin{aligned} a_{23} &= T_2 p + 1 \\ a_{32} &= \frac{T_3}{K_2} p (T_3 p + 1) \end{aligned} \right\} \quad (13)$$

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and $K_2' = K_2$; a_{23} and a_{32} are transfer functions, T - time constants, K - gain factors. b) Determination of parameters of compensating elements. The stability conditions of the system are investigated for various values of $n = \frac{K_2'}{K_2}$. For $n = 1$, such a system presents

purely theoretical interest, as it has no practical feasibility. Further, stability is investigated for $n > 1$. The characteristic equation is

$$(T_2p + 1)(T_1p + 1) + K_0K_{reg} = 0. \quad (19)$$

The stability condition of such a system is satisfied for all positive values of K_{reg} . Oscillograms are shown of transient processes with and without compensating networks. c) On possible ways of connecting the compensating elements, the possible effects are ascertained which connection in parallel has on the stability and steady-state error. d) Effect of "small parameters" of compensating elements on stability and quality of processes in stabilization system: If lag is taken into account in actual systems, then T is a "small"

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parameter which is determined by the lag. To obtain stabilization systems which are noise invariant, it is necessary to incorporate compensating elements (whose action is described by derivatives) for reducing the lag of the controller elements, and positive flexible feedbacks for increasing the gain factor of the controller. If the lag of the differentiating units is neglected, the gain factor of the compensating elements should be chosen from the stability condition, the gain factors of the controller elements being taken into account. The invariant character of the system will increase with the gain factor of the controller. In systems which are designed according to invariance theory, the gain factor of the controller can be made larger - without causing instability - than in ordinary systems. The inclusion in parallel, of a compensating element which has a high-order (in p) transfer function, reduces the steady-state error but also the stability. The invariant character of the system increases with decreasing lag in the actual differentiating elements which constitute the compensating network. The stability of the system increases with lag in these elements. There are 9 figures and

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On the creation of noise-invariant...

5 Soviet-bloc references.

SUBMITTED: March 21, 1960

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CHUMAKOV, N.M. [Chumakov, M.M.] (Kiyev)

Problem of creating automatic control systems which are invariant to
disturbance. Avtomatyka no. 1:33-46 '61. (MIRA 14:4)
(Automatic control)

S/094/61/000/008/001/003
E194/E484

AUTHORS: Chumakov, N.M., and Kireyev, M.I.

TITLE: Requirements applicable to power factor correction capacitors

PERIODICAL: Promyshlennaya energetika, 1961, No.8, pp.1-6

TEXT: The importance of using capacitors to improve the power factor of industrial installations is discussed. Data are given about the power factors of various Soviet power systems. In the period 1961-65, it is estimated that the requirements of the Soviet industry for power factor correction capacitors will be 8 million kVAR. The capacity of capacitors installed in industry will then be 90% of the installed capacity of generators in the power systems. Soviet capacitor manufacturers have, since 1959, commenced to deliver capacitors of a nominal output which is lower than the nameplate rating in the case of low voltage capacitors. This practice is considered unjustified. Extensive data is given about service faults in capacitors, of the total number in service in 1960, 3.3% failed. Failures were due to oil leakage, internal damage and obvious manufacturing defects, whilst some pre-war

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S/094/61/000/008/001/003

E194/E484

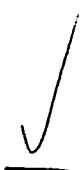
Requirements applicable to ...

capacitors failed through ageing. It is recommended that when capacitors have been in use for 10 to 15 years that the operating voltage be reduced, thus 10 kV capacitors should be transferred to 6 kV supply and so on. Better records should be kept of the causes of faults. Very little automatic protective equipment is used. In most industrial applications capacitors are connected to supply day and night. Numerous cases of manufacturing defects in capacitors are described. In most cases the supply voltage remained within the specified limits but, in some cases, variations in supply voltage had not been measured. Capacitors are often made without the necessary auxiliary equipment. It is recommended that the standard scale of ratings of 6 and 10 kV capacitors should include units of 50 and 100 kVAR and above in a single tank. The loss factor of paper oil capacitors should be 0.25 to 0.3%. The capacitors should be provided complete with fuses, busbars, isolators and other protective devices. Cases have occurred of capacitor failures due to higher harmonics and accordingly recommendations should be issued about the protection of capacitors connected to systems with mercury arc rectifiers.

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Requirements applicable to ... S/094/61/000/008/001/003
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Capacitor manufacturers should provide instructions about storage. The manufacturers should reinforce the insulation between plates of capacitors for voltages over 1 kV to reduce instances of insulation breakdown and should also increase the output of capacitors with synthetic chlorinated impregnant. During 1961-62 manufacturers should ensure that up to 25% of the total capacitor production is equipped for outdoor installation. There are 2 tables.



Card 3/3

KOLESOV, D.S., inzh., otv. za vypusk; CHUMAKOV, N.M., red.; KIREYEV, M.I., red.; AKULOV, Ye.F., red.; IVANOV, N.N., red.; KNYAZEV, P.I., red.; CHICHILLO, I.K., red.; VOROTNIKOVA, L.F., tekhn. red.

[Safety regulations for operating and servicing the electric power systems of industrial enterprises; obligatory for industrial enterprises, economic councils, ministries, and governmental agencies] Pravila tekhnicheskoi ekspluatatsii i bezopasnosti obsluzhivaniia elektroustanovok promyshlennykh predpriatii; obiazatel'ny dlia promyshlennykh predpriatii sovmarkhozov, ministerstv i vedomst. Utverzhdeny 10 fevralia 1961 g. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va puti soobshchenia, 1962. 349 p. (MIRA 15:4)

1. Russia(1923- U.S.S.R.)Glavnoye energeticheskoye upravleniye.
(Electric power distribution—Safety regulation)

CHUMAKOV, N.M., red.; KIREYEV, M.I., red.; AKULOV, Ye.F., red.;
IVANOV, N.I., red.; KNYAZEV, P.I., red.; CHICHILLO, I.K.,
red.; KIREYEV, M.I., red.

[Safety engineering regulations for operating and servicing electrical systems of industrial enterprises; mandatory for industrial enterprises, economic councils, ministries, and departments] Pravila tekhnicheskoi ekspluatatsii i bezopasnosti obsluzhivaniia elektronustanovok promyshlennykh predpriatii; obiazatel'ny dlia promyshlennykh predpriatii, sov-narkhozov, ministerstv i vedomstv. Utverzhdeny 10 fevralia 1961 g. Moskva, Metallurgizdat, 1962. 360 p. (MIRA 15:10)

1. Russia (1923- U.S.S.R.) Glavnoye energeticheskoye upravleniye.
(Electric power distribution—Safety regulations)

CHUMAKOV, N.M., red.; KIREYEV, M.I., red.; AKULOV, Ye.F., red.;
IVANOV, N.N., red.; KNYAZEV, P.I., red.; CHICHILO, I.K.,
red.; KRYLOV, A.G., red.; GLUSHKO, G.I., tekhn. red.

[Safety engineering regulations for operating and servicing electrical systems of industrial enterprises required for the industrial plants of economic councils, ministries, and departments] Pravila tekhnicheskoi ekspluatatsii i bezopasnosti obsluzhivaniia elektroustanovok promyshlennykh predpriatii; obiazatel'ny dlia promyshlennykh predpriatii sovnarkhozov, ministerstv i vedomstv. Utverzhdeny 10 fevralia 1961 g. Moskva, Dnepropetrovskoe knizhnoe izd-vo, 1962. 279 p.

(MIRA 16:3)

1. Russia (1923- U.S.S.R.) Glavnoye energeticheskoye upravleniye.

(Electric power distribution--Safety regulations)

YOKHVIDOV, E. MININ, G. , CHUMAKOV, N.M.

"Question concerning the rational use of electric power and the organization of state control over power consumption in the USSR.

Report submitted for the Symposium on Rational Electric Power Consumption
Warsaw, ~~Pol~~ poland 22-25 May 1962

L 126 3-65 EWT(d)/EWP(1) Po-4/Pq-4/Pg-4/Pae-2/Pz-4/P1-4 IUP(c) BC
 AT4045208 5 1964 04 000 005 0128 0145

32
 29
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AUTHOR: Chumakov, N.M.

Self-adjusting invariant systems with an infinitely large amplification factor

SOURCE: Avtomaticheskoye upravleniye i vychislitel'naya tekhnika, no. 6, 1964, 128-145

TOPIC TAGS: self adjusting system, invariant system, automation theory, amplification factor, control theory

ABSTRACT: The paper deals with systems which are made invariant by means of a self-adjusting mechanism. The first part develops the condition that a one-dimensional system with a single channel for transmission of perturbations be invariant. The second part of the paper discusses the operation of such a system and the mechanism of adjusting its elements if the condition of invariance is to be fulfilled. The third part discusses the design of self-adjusting systems fulfilling the invariance property. The author concludes that one-dimensional, single-channel, automatic control systems, with the inclusion of relay elements, can be invariant with precise amplitudes of auto-oscillations with respect to perturbing forces. This precision can be covariant with respect to the directing signal if the latter is removed from the model of the system. It is possible to stabilize the amplitude of auto-oscillations by means of a self-adjusting induced, closed

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L 25653-65

ACCESSION NR: AT4045208

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circuit, used to measure either the amplitude or frequency of auto-oscillations. For direction by means of processes which admit auto-oscillations with small amplitudes, the most acceptable systems from the technical point of view may prove to be the in-variant self-adjusting systems. Orig. art. has: 14 figures and 40 formulas.

ASSOCIATION: none

ENCL 00

SUB CODE: 15

OTHER 00

L 24934-65 EWT(d)/EPF(n)-2 Po-4/Pq-4/Pg-4/Pu-4/Px-4/Pl-4/Pae-2 IJP(c)
ACCESSION NR: AP4045348 WW/BC S/0103/64/025/009/1352/1357

AUTHOR: Chumakov, N. M. (Kiev) B

TITLE: Creation of a second disturbance channel for differential method of its measurement in invariant systems

SOURCE: Avtomatika i telemekhanika, v. 25, no. 9, 1964, 1352-1357

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory, invariant automatic control system

ABSTRACT: A class of single-variable automatic systems with one disturbance channel is considered. When the disturbance cannot be directly measured, it is evaluated by measuring the quantities characterizing the processes that transpire in the closed loop; a differential method is employed for this purpose. These conditions should be met: (1) The quantities to be compared can be brought to a common physical nature; (2) One of the quantities depends, and the other does

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ACCESSION NR: AP4045348

not, on the disturbance; (3) The measuring system and parallel disturbance channels consist of linear elements. The second disturbance channel should be derived from a point closer to the output as compared with the first channel connection point. Formulas for the transfer functions of all channels are developed. It is noted that sometimes physically realizable elements cannot be accepted on production grounds. Orig. art. has: 5 figures and 23 formulas.

ASSOCIATION: none

SUBMITTED: 10Dec62

ENCL: 00

SUB CODE: IE

NO REF SOV: 005

OTHER: 000

Card 2/2

~~CHUMAKOV, N.M., red.; KIREYEV, "I., red.; AKULOV, Ye.F., red.;~~
~~IVANOV, N.N., red.; KNYAZEV, P.I., red.; CHICHILO, I.K.,~~
red.; MEL'NIK, V.D., red.

[Regulations for operating and safety measures in servicing the electrical systems of industrial enterprises; mandatory for industrial enterprises of regional economic councils, ministries, and departments] Pravila tekhnicheskoi ekspluatatsii i bezopasnosti obsluzhivaniia elektroustanovok promyshlennykh predpriatii; obiazatel'ny dlia promyshlennykh predpriatii sovarkhozov, ministerstv i vedomstv. Dnepropetrovsk, Izd-vo "Promin'," 1965. 257 p.

(MIRA 18:8)

1. Russia (1923- U.S.S.R.) Glavnoye energeticheskoye upravleniye.

CHUMAKOV, N.M., red.; KIREYEV, M.I., red.; AKULOV, Ye.F., red.;
IVANOV, N.N., red.; KNYAZEV, P.I., red.; CHICHILLO, I.K.,
red.; MEL'NIK, V.D., red.

[Safety engineering and operation regulations for the maintenance of the electrical systems of industrial enterprises; mandatory for industrial enterprises, economic councils, ministries, and enterprises] Pravila tekhnicheskoi ekspluatatsii i bezopasnosti obsluzhivaniia elektroustanovok promyshlennykh predpriatii; obiazatel'ny dlia promyshlennykh predpriatii sovmarkhozov, ministerstv i vedomstv. Dnepropetrovsk, Izd-vo "Promin", 1964. 305 p. (MIRA 18:2)

1. Russia (1923- U.S.S.R.) Glavnoye energeticheskoye upravleniye.

CHUMAKOV, N.M.

Some Pre-Cambrian tillitelike rocks in the U.S.S.R. Izv. AN SSSR.
Ser. geol. 30 no.2:83-101 F '65.

(MIRA 18:4)

CHUMAKOV, N.N.; SHIFRIN, A.R.; SMIRNOV, A.G.; KREPYSHEV, D.G.; VYSOTSKIY,
A.I.; KUZ'MINA, N.M.; STEPANOVA, N.N.

Control of athlete's foot among workers of a plant producing rubber
and industrial goods. Sov. med. 25 no.5:149-151 My '61.

(MIRA 14:6)

1. Iz kafedry kozhnykh i verexicheskikh bolezney Yaroslavskogo
meditsinskogo instituta (zav. - prof. N.N.Chumakov) i Yaroslavskogo
oblastnogo venerologicheskogo dispansera (glavnyy vrach D.G.Krepyshev).
(RINGWORM) (FOOT-DISEASES)

CHUMAKOV, N. N., prof.; BABANOV, G. P., dotsent; SMIRNOV, A. G., assistant

Vitiligo-like dermatoses in workers in a phenol-formaldehyde resin works. Vest. dermat. i ven. no.4:3-8 '62. (MIRA 15:4)

1. Iz kafedry kozhnykh i venericheskikh bolezney Yaroslavskogo meditsinskogo instituta (zav. - prof. N. N. Chumakov) i kafedry gigiyeny (zav. - prof. V. S. Chetverikov).

(SKIN--DISEASES) (PHENOLS--TOXICOLOGY)
(FORMALDEHYDE--TOXICOLOGY)

CHUMAKOV, N. P.

"Sowing Winter Crops in a Dry Fall." Sov. Agron. No. 1, 1948. Sci.
Coll.

AGEYEVA, A.P.; AKSENOVA-CHEKASOVA, A.S., aspiranka; VELIKANOV, L.N., bibliotekar'; GAVVA, F.M.; GIRENKO, P.D., Geroy Sots. truda; GUBANOV, M.M., pensioner; GUS'KOVA, T.K., nauchnyy sotr.; DAVYDOV, A.G., prepodavatel'; DANILEVSKIY, V.V., prof., dvazhdy laureat Stalinskoy premii; DOVGOPOL, V.I., laureat Stalinskoy premii; YELOKHIN, M.F.; YERMAKOV, A.D.; IVANOV, V.G., prepodavatel'; KOVALEVICH, V.K.; KOVALEVSKAYA, Ye.S., zhurnalistka; PANKRATOV, A.G.; POPOVA, F.M.; URYASHOV, A.V.; FEDORIN, I.M., kand. ist. nauk; FILIPPOV, F.R.; CHUMAKOV, N.P.; SHEPTAYEV, K.T., zhurnalist; VAS'KOVSKIY, O.A., kand. ist. nauk, retsenzent; KULAGINA, G.A., kand. ist. nauk, retsenzent; GORCHAKOVSKIY, P.L., prof., doktor biol. nauk, retsenzent; BAKHMUTOVA, V., red.; SAKNYN', Yu., tekhn. red.

[Nizhniy Tagil]Nizhniy Tagil. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1961. 294 p.
(MIRA 16:1)

1. Nizhne-Tagil'skiy krayevedcheskiy muzey (for Ageyeva, Gus'kova).
2. Zaveduyushchiy gorodskim otделom narodnogo zdravookhraneniya, Nizhniy Tagil (for Velikanov).
3. Zaveduyushchiy gorodskim sel'skokhozyaystvennym otделom goroda Nizhniy Tagil (for Gavva).
4. Nachal'nik upravleniya stroitel'stvom Sverdlovskogo sovnarkhoza (for Girenko).
5. Deystvitel'nyy chlen Akademii nauk Ukr. SSR, Leningradskiy politekhnicheskii institut (for Danilevskiy).

(Continued on next card)

PASNIK, I.V.; CHUMAKOV, N.S.; KIRPICHNIKOV, P.A.

Some ways for improving the quality of insole paperboard.
Kozh. obuv. prom. 5 no.7:37-38 JI '63. (MIRA 16:8)

(Paperboard)

(Shoe industry—Equipment and supplies)

VODYAKOV, L. T.; CHUMAKOV, N. S.

"A study of the optimal conditions of drying synthetic leathers and tanned pasteboard."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Kazan' Chemical Technological Inst.

5(1)

AUTHORS:

Timoshev, V. G., Rodionov, A. V.,
Koltunov, V. S., Chumakov, P. S.

SOV/32-25-3-54/62

TITLE:

Laboratory Extractor With Gas Lifter (Laboratornyy ekstraktor s gazoliftom)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 3, pp 377-378 (USSR)

ABSTRACT:

The described extractor with gas lifter is practically a set of individual parts in which each of the individual parts has roughly the effect of 0.95 of a theoretical plate. Thus, by changing the number of individual parts, the extractor may be adjusted to whatever efficiency is needed. In the present case a device composed of 48 sections, i.e. corresponding to 45 theoretical plates, was used. The sketch of an individual part of the extractor is given (Fig) by means of which the operation of the device is described. The extractor may be used for the extraction-separation of substances, and for various technical processes based on liquid extraction. There is 1 figure.

Card 1/1

CHUMAKOV, P.T., inzh.; RUBENCHIK, Yu.I., inzh.; LEBEDEV, V.N., inzh.

Behavior of nonmetallic inclusions and gases in the process
of smelting and pouring of steel, Stal' 22 no.6:504-507 Je '62.
(MIRA 16:7)

(Steel—Inclusions)

(Steel—Hydrogen content)

KIRPICHNIKOV, P.A.; CHUMAKOV, N.S.; BOGOMOLOV, B.D.; MOSKVA, V.V.

Certain methods for improving the technological properties of
artificial leather. Trudy KKHTI no.26:23-31 '59. (MIRA 15:5)
(Leather, Artificial)

AYUPOV, R.Sh.; VODYAKOV, L.T.; CHUMAKOV, N.S.

Drying of artificial insole leather at high temperatures. Kozh.--
obuv. prom. 7 no.8:19-22 Ag '65. (MIRA 18:9)

CHUMAKOV, S.

1. SHISHKO, K. CHUMAKOV, S.
2. USSR (600)
3. Lumbering
4. Valuable materials on advanced experience.
Les. prom. 72-No. 11 - 1952.

9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

CHUMAKOV, S.

More paper and cellulose. NTO 6 no.2:40-41 F '64. (MIRA 17:4)

CHUMAKOV, S.

Engineers help brigades. NTO no.1:52 Ja '59.

(MIRA 12:2)

1. Chlen nauchno-tekhnicheskogo obshchestva bumazhnoy i derevo-
obrabatyvayushchey promyshlennosti.
(Moscow--Furniture industry)

~~CHUMAEV, S.~~

A weather ship. Znan.ta pratsia no.2:2-4 F '60.
(MIRA 13:5)
(Meteorology, Maritime)

CHUMAKOV, S.; RABINOVICH, B.; NURMUKHAMMEDOV, M. (G.Petropavlovsk);
Yegorov, V.; STEPANOV, K.; SIBILEV, P.; YUROV, V.

Response to the survey of letters on "How a warehouse should
distribute goods among stores"; (No. 5, 1960). Sov. torg.
33 no. 9:30-35 S '60. (MIRA 14:2)

1. Obshchestvennyy inspektor gortorga, gKhasavyurt, Dagestan-
skaya ASSR (for Chumakov). 2. Zamestitel' direktora magazina
No.8 plodoovoshchtorga, Riga (for Rabinovich). 3. Zamestitel'
nachal'nika Planovo-ekonomicheskogo upravleniya Ministerstva
torgovli RSFSR (for Yegorov). 4. Nachal'nik Planovo-
finansovogo otdela Glavnogo upravleniya torgovli gorispolkoma,
Moskva (for Stepanov). 5. Nachal'nik Planovogo otdela
gorpromptorga, Krasnodar (for Sibilev). 6. Nachal'nik
Planovo-ekonomicheskogo otdela gorpromptorga, Irkutsk (for Yurov).
(Wholesale trade)

CHUMAKOV, S.

Cooperation of the Scientific Technological Society and the
All-Union Society of Inventors and Efficiency Promoters.

NTO 3 no.4:45-46 Ap '61.

(MIRA 14:3)

1. Uchenyy sekterat' Moskovskogo pravleniya Nauchno-tekhnicheskogo
obshchestva bumazhnoy i derevoobrabatyvayushchiy promyshlennosti.
(Moscow--Paper industry)

CHUMAKOV, S.

Start of an important business. NTO 4 no.8:19-20 Ag '62.

(MIRA 15:8)

1. Zamestitel' predsedatelya Moskovskogo oblastnogo pravleniya
Nauchno-tekhnicheskogo obshchestva bumazhnoy i derevoobrabatyvayu-
shchey promyshlennosti.

(Moscow Province—Paper industry)

(Moscow Province—Woodworking industries)

CHUBAROV, M.; CHUMAKOV, S.

When such an activity... NTO 6 no.6:35-37 Je '64.

(MIRA 17:8)

1. Zamestitel' predsedatelya Moskovskogo pravleniya Nauchno-
tekhnicheskogo obshchestva bumazhnoy i derevoobrabatyvayushchey
promyshlennosti (for Chumakov).

CHUMAKOV, S.M., inzh.

Practice in the use of business accounting in Section No. 4
of Yasinovka Mine Administration. Ugol' 37 no. 1:43 Ja '62.
(MIRA 15:2)

(Donets Basin—Coal mines and mining—Accounting)

NIKOLENKO, K.F., inzh.-konstruktor; CHUMAKOV, S.M., inzh.

Automatic low-voltage installations for mine drainage systems.
Ugol' 37 no.8:45 Ag '62. (MIRA 15:9)

1. Yasinovskoye shakhtoupravleniya i Trest Oktyabr'ugol'.
(Mine drainage) (Electricity in mines)

CHUMAKOV, S. P. ed.

Slovar' radiotermimov. [Dictionary on radio terms]. Pod red. S.P. Chumakova i
S. E. Khaikina. Izd. 2., dop. i perer. Moskva, Gos. izd-vo po voprosam radio, 1937
125 p. illus

DLC: TK6544.C5 1937

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress
Reference Department, Washington, 1952, Unclassified...

CHUMAKOV, S.P.

From the work practices of the Moscow organization of the
Scientific Technical Society of Paper and Woodworking Industry.
Der.prom. 10 no.6:23 Je '61. (MIRA 14:7)

1. Moskovskoye oblastnoye pravleniye Nauchno-tekhnicheskogo
obshchestva bumazhnoy i derevoobrabatyvayushchey promyshlennosti.
(Moscow Province → Furniture industry)

CHUMAKOV, S.

Life introduces amendments. MTO 5 no.5:51-52 My '63.

(MIRA 16:7)

1. Zamestitel' predsedatelya soveta nauchno-tekhnicheskogo obshchestva Moskovskogo mebel'no-derevoobrabatyvayushchego kombinata.

(Moscow—Furniture industry)

CHUMAKOV, S. Ya.

"Catalytic Synthesis of Certain Organic Compounds Through Compounds Through Compressed Acetylene." Cand Chem Sci, Molotov State U ineni A. M. Gor'kiy, Molotov, 1954. (KL, No 17, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

CHUMAKOV S. Ya.

KOZLOV, N.S.; ~~CHUMAKOV, S. Ya.~~

Catalytic condensation of acetylene with aromatic amines. Part 26:
Catalytic condensation of compressed acetylene with aromatic amines
in vapor phase. Zhur.ob.khim. 27 no.10:2861-2864 O '57.

(MIRA 11:4)

(Condensation (Chemistry)) (Acetylene) (Amines)

CHAKOV, S. A.

CHUMAKOV, S Ya.

KOZLOV, N.S.; CHUMAKOV, S.Ya.

Catalytic method of synthesizing vinyl esters. Zhur. prikl. khim.
31 no.1:143-144 Ja '58. (MIRA 11:4)

1. Permskiy gosudarstvennyy universitet im. A.M. Gor'kogo.
(Vinyl alcohol)

5(3)

SOV/80-32-5-38/52

AUTHORS: Kozlov, N.S., Chumakov, S.Ya.

TITLE: The Catalytic Condensation of Compressed Acetylene With Aromatic Amines in the Liquid Phase

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 5, pp 1149-1153 (USSR)

ABSTRACT: Favorskiy and Shostakovskiy developed a safe method for using compressed acetylene in the synthesis of vinyl ethers [Ref 1]. The reaction of compressed acetylene with primary aromatic amines is investigated here. There are three variants of the reaction: 1) condensation of acetylene with the amines, the final products being quinaldine and its derivatives; 2) condensation with a mixture of aromatic amine and acetone, the final product being 2,4-dimethylquinoline and its homologs; 3) condensation with a mixture of primary aromatic amines with aromatic aldehyde, in which α -phenylquinoline and its homologs are formed. Cuprous chloride, mercury dichloride, copper acetylenide and the mercury salts of organic acids were used as catalysts. The saturation of the reaction mass by acetylene took formerly 30 hours, but could be reduced to 2 - 3 hours by the use of compressed acetylene. Mercury dichloride and the mercury salts of the acetic, propionic and butyric acid as catalysts produce

Card 1/2

SOV/80-32-5-38/52

The Catalytic Condensation of Compressed Acetylene With Aromatic Amines in the Liquid Phase

quinaldine, cuprous chloride and copper acetylenide produce quinaldine and indole. The pressure in the experiments was 10 - 12 atm. There are 6 Soviet references.

ASSOCIATION: Permskiy sel'skokhozyaystvennyy institut (Perm' Agricultural Institute)

SUBMITTED: March 25, 1959

Card 2/2

CHUMAKOV, T.A.; DOROKHIN, L.T.

Ul'yanov District. Gor. khoz. Mosk. 35 no.1:24-27 Ja'61.

(MTRA 14:2)

1. Predsedatel' ispolkoma Ul'yanovskogo raysoveta (for Chumakov).
2. Instruktor Mosgorispolkoma po Ul'yanovskomu rayonu (for Dorokhin).
(Ul'yanov District (Moscow Province)---Economic conditions)

TIMUSHEV, A., (Komi ASSR, Ust'-Kulomskiy rayon, s. Kerchem'ya); Sonin, I., (Irkutsk); LAPICHEV, G. (Pos. Yanovo, Smolenskaya obl.); BYKOV, F. (Rogachevskiy rayon, Gomel'skaya obl.); DANILOV, M., (Moskva); CHUMAKOV, V. (S. Orlovka, Frunzenskaya obl.); NOVIKOV, V. (Semipalatinsk); TRIFONOV, A. (Yegor'yevskiy rayon, Moskovskaya obl.); NOVOSHEL'TSEV, V. (Debal'tsevo, Stalinskaya obl.); MUNASYNOV, N. (Krasnoye, L'vovskaya obl.)

Letters to the editor. Sov.foto 18 no.11:83-85 N '58.
(MIRA 11:12)

(Photography)

CHUMAKOV, V.

TINYAKOV, G., professor; CHUMAKOV, V., student.

Comparative histological characteristics of bristles treated by various methods. Mias.ind. SSSR 24 no.6:55-57 '53. (MIRA 6:12)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

(Bristles)

ACC NR: AP7002896

(A) SOURCE CODE: UR/0017/67/000/001/0020/0021

AUTHOR: Chumakov, V. (Major; Engineer)

ORG: none

TITLE: Inadequacy of visual inspection of fallout shelters Gaining access to shelter as part of rescue operations after a nuclear blast

SOURCE: Voyennoye znaniye, no. 1, 1967, 20-21

TOPIC TAGS: fallout shelter, excavating machinery, fallout shelter inspection

ABSTRACT: The article briefly reviews the more common designs for built-in fallout shelters. There basic types of underground shelters are discussed. The method of clearing debris, produced by nuclear blasts, to gain access to a buried shelter depends entirely on its design and location, i. e., whether it is completely underground, on the ground floor, or in the basement, and on the location of its exits. The numerous factors involved in the clearing of debris blocking the entrance to a shelter and the relative advantage of using shovels, bulldozers, and steamshovels are discussed. In conclusion, it is stated that visual inspection alone is not enough;

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ACC NR: AP7002896

the commander of the rescue group must not only study the shelter's layout but also the design and layout of the buildings in the area, in advance of rescue operations, particularly so around factories where there is a far greater variety of shelters. Orig. art. has: 4 figures. [GC]

SUB CODE: 05, 13, 20/SUBM DATE: none/

Card 2/2

PONIKAROV, N.; CHUMAKOV, V.

Tsunami and nuclear explosion. Voen. znan. 40 no.10:46-47
O '64. (MIRA 17:12)

CHUMAKOV, V.A., inzh.; KUPOVETS, V.A., inzh.

Ore-testing stations are needed at mining and ore dressing combines of the Krivoy Rog Basin. Gor. zhur. no.3:75 Mr '63.

(MIRA 16:4)

1. Inguletskiy gornoobogatitel'nyy kombinat.

ALEKSEYEV, F.K.; CHUMAKOV, V.A.

Ways of increasing the efficiency of dressing ore quartzites.
Gor. zhur. no.1:67-69 Ja '62. (MIRA 15:7)

1. Inguletskiy gorno-obogatitel'nyy kombinat.
(Ore dressing)
(Krivoy Rog Basin—Quartzites)

L 10709-65 EWP(e)/EWT(m)/EWP(w)/T/EWP(k)/EWP(b) Pf-4/Pad APSTR/AEDC(b)
JD/HW/WE

ACCESSION NR: AP4044248

S/0128/64/000/008/0001/0003

AUTHOR: Sladkova, M. V.; Antonov, A. K.; Chumakov, V. A.

TITLE: Zircon and zircon-titanium dioxide shell molds for investment casting in vacuum and open atmosphere furnaces

SOURCE: Liteynoye proizvodstvo, no. 8, 1964, 1-3

TOPIC TAGS: gas turbine blade, cast gas turbine blade, gas turbine blade casting, heat resistant alloy casting, turbine blade, investment casting, investment casting mold, investment casting mold material

ABSTRACT: Molds made of zircon or a mixture of zircon and titanium dioxide offer numerous advantages in the investment casting of gas turbine blades. These molds have a high bend and compression strength which allows them to be used for castings weighing up to 60 kg. They do not react with nickel-base alloys at temperatures up to 1700C and with iron-base alloys at temperatures up to 1550C. Therefore, the molds separate easily from their castings, leaving a clear smooth sur-

Card 1/2

L 10709-65

ACCESSION NR: AP4044248

2
face which does not require any additional cleaning. The molds are resistant to thermal shock. When preheated to 600C, the molds yield easily under the pressure of the shrinking castings and do not cause cracks. Articles cast into these molds have the same characteristics of heat resistance as articles cast into corundum molds but have a higher notch toughness and fatigue strength. Orig. art. has: 3 tables and 3 figures.

16
ASSOCIATION: none

SUBMITTED: 00

ATD PRESS: 3115

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 007

OTHER: 003

Card 2/2

ACCESSION NR: AP4040518

S/0080/64/037/006/1183/1188

AUTHORS: Gorshkov, V.I.; Marty*nenko, L.I.; Chumakov, V.A.

TITLE: Separation of rare element mixtures by continuous ionic counterflow

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 6, 1964, 1183-1188

TOPIC TAGS: rare element ionic separation, continuous ionic counterflow, rare element separation, rare element mixture separation, ionic counterflow, EDTK salt

ABSTRACT: This work was prompted by the slowness, clumsiness and low yields of the conventional method of rare element separation in batches by saturating the upper column layer of resin with a solution of rare elements in form of chlorides, while the lower, "retaining" layer of the column is saturated with copper (II), iron (III) and hydrogen ions. Through these two layers a solution of EDTK is not explained. It may be the Russian trade name of an ion exchange resin, but it also may be the abbreviation for an organic acid) EDTK salts is circulated (most frequently tri-substituted

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ACCESSION NR: AP4040518

ammonium salt (NH_4HA). Instead of the above, the authors propose a continuous counterflow ion exchange method similar to that described by Spedding et al (J. Am. Chem. Soc 77, 1393 (1955)) but showing a number of advantages compared to it such as possibility of automation, simple controls, easy feed, and product separation. Two columns operating in counterflow are used. Ion exchange resin in its Cu or Cu and NH form is fed into the upper part of column 1 where continuous frontal analysis of the mixture takes place. Yt, Gd and Sm form the more stable complexes with EDTK and therefore are accumulated in the upper part of column 1. The ion exchange resin in rare-earth-form leaving column 1 enters into column 2 against a counterflow of magnesium complexonate. Since rare element complexes with EDTK are more stable than the magnesium complexonate, the rare element ions are forced out of the resin. Pr concentrates in the lower part of column while the remainder of the solution is directed to the lower part of column 1. The ion exchanger resin in Mg-form flows from the lower part of column 2 for regeneration. This method permits visual control of separation since cation exchange resin KU-2 acquires different coloration in its various cation forms. The method is adaptable for big scale production. The mixture to be

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ACCESSION NR: AP4040518

separated contained 68% Nd, 20% Pr, 7% Sm, 2% Gd and other elements of the yttrium group. The equivalent height of the theoretical plate was 3.1 cm. "The authors express their gratitude to the radiological laboratory of IONKh (Inst. of Org. and Inorg. Chemistry) UkrSSR." Orig. art. has: 3 figures and 1 table

ASSOCIATION: None

SUBMITTED: 09Jul62

SUB CODE: IC

NR REF SOV: 010

ENCL: 00

OTHER: 004

Card 3/3

GORSHKOV, V.I.; PANCHENKOV, G.M.; CHUMAKOV, V.A.

Continuous countercurrent ion-exchange method of separating
potassium and rubidium. Zhur. fiz. khim. 38 no.5:1358-1361
My '64. (MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
Submitted July 24, 1963.

BELASH, E.N., doktor tekhn. nauk; PUGINA, O.V.; CHUMAKOV, V.A.

Effect of the magnetic treatment of pulp on flotation.

Met. i gornorud. prom. no.3:65-67 My-Je '65.

(MIRA 18:11)

L 00760-06 EWT(1)/EWT(m)/EWT(t)/EWT(b) JD

ACCESSION NR: AP5021993

UR/0286/65/000/014/0071/0071
621.789

AUTHOR: Chumakov, V. A. 41,55

TITLE: A vacuum installation for producing ingots by the directional crystallization method. Class 31, No. 172967

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 71

TOPIC TAGS: metal melting, vacuum furnace, vacuum casting, induction furnace

ABSTRACT: This Author's Certificate introduces a vacuum installation for producing ingots by the directional crystallization method. The device consists of units for filling and unloading forms with vacuum locks, heaters for the forms, an induction furnace and crystallization chamber. Efficiency is improved by making the crystallization chamber horizontal with heaters which are reduced with height so that a variable temperature field is created along the chamber.

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviatsionnoy tekhnike SSSR (Organization of the State Committee for Aviation Technology, SSSR) 41,55

SUBMITTED: 09Sep63

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

Card 1/1

BELASH, F.N.; CHUMAKOV, V.A.

Floatability of iron oxides from a pulp treated in a magnetic field.
Gor. zhur. no.5:63-65 My '65. (MIRA 18:5)

1. Krivorozhskiy gornorudnyy institut (for Belash). 2. Inguletskiy
gornoobogatitel'nyy kombinat (for Chumakov).

CHUMAKOV, V.D.; RUMYANTSEVA, M.B., red.; POLUYEKHINA, N.I.,
tekhn. red.

[Standardized equipment for the fish industry] Tipizirovanoe oborudovanie dlia rybnoi promyshlennosti. Moskva, Rybnoe proizvodstvo, 1963. 47 p. (MIRA 16:10)
(Fish processing plants—Equipment and supplies)

YEMEL'YANOV, Ye.M.; CHUMAKOV, V.D.

Some data on the study of interstitial waters in the Marmara and
Mediterranean Seas. Dokl. AN SSSR 143 no.3:701-704 Mr '62.

(MIRA 15:3)

1. Chernomorskaya eksperimental'naya nauchno-issledovatel'skaya
stantsiya Instituta okeanologii AN SSSR. Predstavleno akademikom
N.M.Strakhovym.

(Marmara Sea—Water—Composition) (Mediterranean Sea—
Water—Composition) (Sediments (Geology))

CHUMAKOV, Vladimir Danilovich; RUMYANTSEVA, M.B., red.;
PROKOF'YEVA, V.N., tekhn. red.

[Technological and transport equipment for the fishing
industry] Tekhnologicheskoe i transportnoe oborudovanie
dlia rybnoi promyshlennosti. Moskva, Rybnoe khoziaistvo,
1963. 45 p. (MIRA 17:3)

KUTEYNIKOV, A.F.; PETROV, N.V.; CHUMAKOV, V.D.

Indirect complexometric determination of carbon. Zav. lab. 31
no.11:1326 '65. (MIRA 19:1)

LUK'YANOV, B.; CHUMAKOV, V.

~~Defense~~ against contamination from an atomic explosion.

Voen, znan. 34 no.9:29 S '58.

(MIRA 11:10)

(Atomic bomb--Safety measures)

LEBEDEVA, Yuliya Aleksandrovna; MOSKALEV, Vladimir Dem'yanovich;
CHUKOV, Sergey Vasil'yevich; CHUMAKOV, Viktor Ivanovich;
GORCHAKOV, A.D., polkovnik, red.; KUZ'MIN, I.F., tekhn.red.

[How to defend oneself from a weapon of mass destruction]
Kak zashchishchat'sia ot oruzhiia massovogo porazhenia.
Moskva, Voen.izd-vo M-va oborony SSSR, 1962. 29 p. (MIRA 15:4)

1. Russia (1923- U.S.S.R.) Shtab grazhdanskoy oborony.
(Civil defense)

L 10343-63
Pa-4 K

EWA(b)/EPF(n)-2/EWT(m)/BDS/ES(b) AFFTC/APGC/ASD/SSD Pu-4/
PHASE I BOOK EXPLOITATION

SOV/6423

Lebedev, Yu. A., V. D. Moskalev, S. V. Chukov, and V. I. Chumakov 70

Kak zashchishchat'sya ot oruzhiya massovogo porazheniya (How to
Protect Yourself From Weapons of Mass Contamination) Moscow,
Izd-vo DOSAAF, 1962. 30 p. No. of copies printed not given.

Sponsoring Agency: Shtab grazhdanskoy oborony.

Ed.: A. A. Vasil'yev; Tech. Ed.: G. I. Blazhenkova.

PURPOSE: This booklet is intended to acquaint the general reader with
basic civil defense procedures, and is recommended for "thorough
study."

COVERAGE: This booklet briefly describes the effect of mass destruc-
tion weapons, i.e., nuclear, chemical, and bacteriological, and
lists measures for protecting the population against their effects.

Card 1/2

L 10343-63
How to Protect Yourself From Weapons (Cont.)

0
SOV/6423

TABLE OF CONTENTS:

Ch. I. Modern Mass Destruction Weapons	3
Ch. II. What Must be Done at Threat of Attack	8
Ch. III. Responses to Civil Defense Signals	15
Ch. IV. First Aid	21
Ch. V. Everyone Must Know How to Administer First Aid	26
Ch. VI. How to Prevent the Harmful Effect of Poisonous, Radioactive, and Bacteriological Weapons	28

AVAILABLE: Library of Congress (UA926.R8, 1962a)

SUBJECT: Civil Defense

ch/ib
Card 2/2

AD/dk/tem
8-1-63

KORABLEV, M.; IGOSHIN, M.G., red.; CHUMAKOV, V.I., red.; BLAZHENKOVA,
G.I., tekhn.red.

[Rescue work and emergency repair operations at centers of
nuclear explosions] Spasatel'nye i neotlozhnye avariino-
vosstanovitel'nye raboty v ochagakh iadernykh vzryvov. Mo-
skva, Izd-vo DOSAAF, 1963. 36 p. (MIRA 17:3)

DURIKOV, Aleksey Pavlovich; ~~CHUMAKOV, Viktor Ivanovich;~~
YELIZAVETSKAYA, G.V., red.; KOBYAKOVA, G.N., tekhn. red.

[Protection of the population of a rural area from radio-
active contamination] Zashchita naseleniia sel'skoi mest-
nosti ot radioaktivnogo zarazheniia. Moskva, Sel'khozizdat,
1963. 77 p. (MIRA 16:12)
(Radiation--Safety measures)

CHUMAKOV, V., inzh.-kapitan

Elimination of the effects of a nuclear attack. Voenn. znan. 39
no.8:33-34 Ag '63. (MIRA 16:8)
(Atomic warfare) (Civil defense)

FAL'KOVSKAYA, Lyudmila Nikolayevna; CHUMAKOV, V.I., nauchn.
red.; SKVORTSOVA, I.P., red.

[Organization of the water supply of inhabited localities
damaged by weapons of mass destruction] Organizatsiia vo-
dosnabzheniia naseleennykh punktov, postradavshikh ot oru-
zhiia massovogo porazheniia. Moskva, Stroiizdat, 1964.
55 p. (MIRA 17:12)

ACC NR: AM6013866

Monograph

UR/

Ponikarov, N. D.; Chumakov, V. I.; Durikov, A. P.

What is necessary to know about the nuclear weapons and protection against them (Chto neobkhodimo znat' o yadernom oruzhii i zashchite ot nego) Moscow, Atomizdat, 1965.. 166 p. illus., biblio., tables. 55,400 copies printed.

TOPIC TAGS: nuclear warfare, nuclear blast effect, nuclear defensive training

PURPOSE AND COVERAGE: The effect of nuclear explosions on humans and on various objects is described. A detailed description of a city after a nuclear attack and the nature of destruction by explosion, radiation, and fire is given. Recommendations for protection from nuclear attack and for decreasing its effects are presented. The book is intended for wide range of readers including civil defense workers.

TABLE OF CONTENTS:

Foreword -- 3

1. Nuclear transformations -- 5

Card 1/2

ACC NR: AM6013866

2. Destruction factors of nuclear explosions and their calculation parameters -- 28
3. Destruction and damage effects of nuclear explosions -- 86
4. Fundamentals of protection from nuclear weapons -- 127

SUB CODE: 18/ SUBM DATE: 200ct65/ ORIG REF: 008/ OTH REF: 003

CHUMAKOV, V.K.

Primary lymphosarcoma of the vermiform process. Khirurgiia 37
no.2:132-133 P '61. (MIRA 14:1)

1. Iz gospi'tal'noy khirurgicheskoy kliniki (zav. - prof. N.Ye.
Dudko) Kiyevskogo meditsinskogo instituta imeni akad. A.A.
Bogomol'tsa.

(APPENDIX—CANCER)

ANISTRATENKO, I.K., dotsent (Kiyev, ul. Leontovicha, d.5, kv.1);
CHUMAKOV, V.K.

Case of the stomach fibromyoma. Klin.khir. no.6:81-82 Je '62.

(MIRA 16:5)

1. Kafedra gospi'tal'noy khirurgii Kiyev'skogo meditsinskogo
instituta i Kiyevskaya bol'nitsa imeni O'ktyabr'skoy revolyutsii.
(STOMACH---TUMORS)

SOLOV'YEV, P.F., inzh.; CHUMAKOV, V.M.; SMIRNOV, A.D., inzh.; RYABOV, M.S.,
red.; BORUNOV, N.I., tekhn. red.

[Electrician's manual] Spravochnik elektromontera. Pod obshchei red.
A.D.Smirnova, P.F.Solov'eva. 4. izd., perer. i dop. Moskva, Gos.
energ.izd-vo. No.2.[Wiring systems and electric lighting equipment]
Provodki i osvetitel'nye elektroustanovki. 1961. 271 p.
(MIRA 14:12)

(Electric light fixtures)

KALMANSON, A.E.; CHUMAKOV, V.M.; TROTSSENKO, V.L.

Structural water and electron transport in a cell. Dokl. AN SSSR
164 no.5:1157-1170 0 '65. (MIRA 18:10)

1. Institut virusologii im. D.I.Ivanovskogo AMN SSSR. Submitted
July 13, 1965.

KALMANSON, A.E.; TROTSENKO, V.I.; CHUMAKOV, V.M.; KHARITONENKOV, I.G.

Nature and role of free radicals in biological processes. Dokl.
AN SSSR 161 no.5:1212-1215 Ap '65. (MIRA 18:5)

1. Institut virusologii im. D.I. Ivanovskogo AN SSSR. Submitted January 15, 1964.

PODCHESOV, E.N.; STROYNOVSKIY, V.V.; VSTAVSKIY, L.I.; KURASOV, D.A.;
CHUMAKOV, V.N.; SOROKIN, V.M., inzh., retsenzent; MAKSIMOV,
N.V., kand. tekhn. nauk, red.; VOROB'YEVA, L.V., tekhn.red.

[Maintenance and repair of ChS2 and ChS3 electric locomotives;
work practices in the "Oktyabr'" repair shop of the Southern
Railroad] Obsluzhivanie i remont elektrovozov CHS3; opyt kol-
lektiva depo "Oktyabr'" IUzhnoi zheleznoi dorogi. Moskva,
Transport, 1964. 99 p. (MIRA 17:4)

CHUMAKOV, V.N.

Activity of blood serum aldolase in rheumatic fever and thyrotoxicosis.
Zdrav. Belor. 6 no. 10:25-26 0 '60. (MIRA 13:10)

1. Iz kafedry obshchey khimii (zaveduyushchiy - dotsent V.A. Bandarin)
Minskogo meditsinskogo instituta. Rabota provodilas' na baze
terapevticheskogo i detskogo otdeleniy Molodechnenskoy oblastnoy
bol'nitsy.

(ALDOLASE) (RHEUMATIC FEVER) (THYROID GLAND--DISEASE)

CHUMAKOV, V.N.

Diagnostic thresholds of enzyme activity in acute coronary
insufficiency. Kardiologiya 4 no.4:77-79 JI-Ig ' 64
(MIRA 19:1)

1. Laboratoriya serdechno-sosudistoy patologii i kafedra fakul'tetskoy terapii Minskogo meditsinskogo instituta (nauchnyye rukovoditeli - akademik AN Belorusskoy SSR B.I. Trusevich [deceased] i dotsent G.I. Sidorenko).

CHUMAKOV, V. P., (Post-graduate student, Moscow Technological Institute of Meat and Milk Industry)

"Detection of arteries and veins of the mammary gland in cows embryos."

Veterinariya, Vol 39, no. 1, Jan 1962. pp 81

~~CHUMAKOV, V.P.~~

Operating the "Chelle" regulators. Gidroliz i lesokhim.prom. 13
no.2:17-18 '60. (MIRA 13:6)

1. Tavdinskiy gidroliznyy zavod.
(Tavda--Hydrolysis)

CHUMAKOV, V.P., aspirant

Detecting the arteries and veins of the mammary gland in the embryos of cows. Veterinariia 39 no.1:81 Ja '62. (MIRA 15:2)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy promyshlennosti.

(Embryology)
(Cows)

CHUMAKOV, V.P., kandidat tekhnicheskikh nauk, dotsent.

~~CHUMAKOV, V.P.~~
Precision of technical operations for winding of electrical units.
Trudy MATI no.27:5-27 '56. (MLRA 9:8)

1. Zaveduyushchiy kafedroy tekhnologii aviapriborostroyeniya.
(Electric instruments)

NIKOLAYEV, Ye.M., prepodavatel'.; ~~CHUMAKOV, V.P.~~, kandidat tekhnicheskikh nauk, dotsent.

Winding of small-sized rotors laying out the turns on slots. Trudy
MATI no.27:93-98 '56. (MIRA 9:8)
(Electric machinery)

CHUMAKOV, V. P.

On Velocities and Accelerations During Open Reeling

The author presents formulas for the determination of the velocities and accelerations of a wire during winding onto frames of various cross sections. He gives results of a check on the working norms of velocity regimes during open reeling, on the basis of which he comes to the conclusion that they should be reexamined. (RZhMekh, No. 6, 1955) Tr. Mosk. Aviats. - Tekhnol. in-ta, No. 22, 1954, 21-53.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

CHUMAKOV, V. P.

"Modern Technological Principles of Instrument Construction".

This publication contains six (6) articles (on motor wiring and gyroscopic theory), which are the results of accomplished research of the "Moskovskiy Aviatsionnyy Tekhnologicheskiy Institut" (Moscow Aviation Technological Institute).

SO: 379581

State Publishing House for the Defense Industry, Moscow
1956.

CHUMAKOV, V.P., kandidat tekhnicheskikh nauk, dotsent; NIKOLAYEV, Ye.N.,
prepodavatel'.

General classification of winding machine tools used in instrument
building. Trudy MATI no.27:72-92 '56. (MLRA 9:8)
(Electric instruments) (Machine tools)

CHUMAKOV, V.P., kandidat tekhnicheskikh nauk, dotsent; NIKOLAYEV, Ye.N.,
prepodavatel'.

Machine tools for winding of rotors and stators with external slots.
Trudy MATI no.27 no.99-106 '56. (MLRA 9:8)

(Machine tools)

(Electric machinery)

CHUMAKOV, V.P., kand.tekhn.nauk.

Methods for measuring the diameter of fine and very fine wire.
Vest.elektroprom. 28 no.8:71-74 Ag '57. (MIRA 10:10)

1.Moskovskiy aviatsionnyy tekhnologicheskoy institut.
(Electric wire)

Chumakov V.P.

NIKOLAYEV, Ye.N., starshiy prepodavatel'; CHUMAKOV, V.P., kandidat
tekhnicheskikh nauk, dotsent.

Mechanizing the winding of small-size rotors. Trudy MATI
no.33:74-83 '57. (MIRA 10:10)

(Rotors)

CHUMAKOV, V. P.
NIKOLAYEV, Ye. N. (Sr. Instructor) (CHUMAKOV, V. P. (Cand. Tech. Sci., Docent)

"Mechanized Winding of Small Rotors." in book Some Problems in the Modern Technology of Instrument Making, Moscow, Oborongiz, 1957. 126 p. Moscow. Aviatsonnyy tekhnologicheskii institut.

In this articles the authors discuss the development of new machine tools and techniques for winding small-sized rotors of electric motors widely used in aircraft instrumentation and automatic controls. The authors have developed a preliminary design and technical specifications for the construction of a machine tool for winding small-sized rotors, on the basis of which the Scientific Research Institute of Technology and Production Management in the Aircraft Industry has worked out the details and built a model of this machine. The model has been tested and successfully used in one of the plants of the Ministry of the Aircraft Industry. Schematic diagrams and detailed discussion of this machine tool is presented. The authors state that the new machine tool simplifies and facilitates the time-consuming manual winding operation. There are 3 Soviet references.